

Division of Public Water Supplies 2200 Churchill Road Springfield, Illinois 62706

Groundwater Quality Protection Program VILLAGE OF TOLUCA FACILITY NUMBER 1230250 WELL SITE SURVEY REPORT **Division of Public Water Supplies** STATE LIBRARY 0 3 1003 ILLI DIS DOCUMENTS



GROUNDWATER QUALITY PROTECTION PROGRAM:

VILLAGE OF TOLUCA FACILITY NUMBER 1230250 WELL SITE SURVEY REPORT

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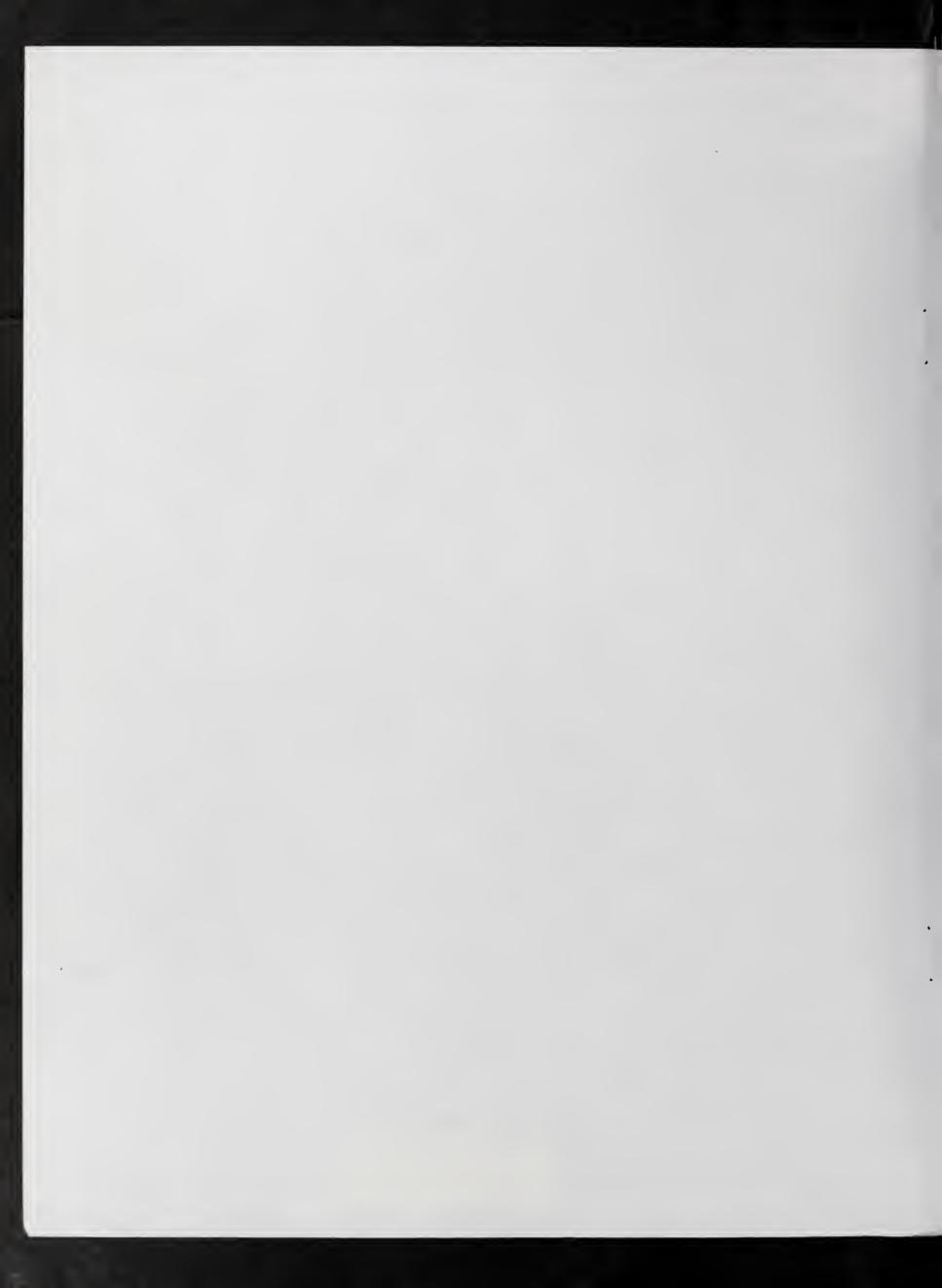
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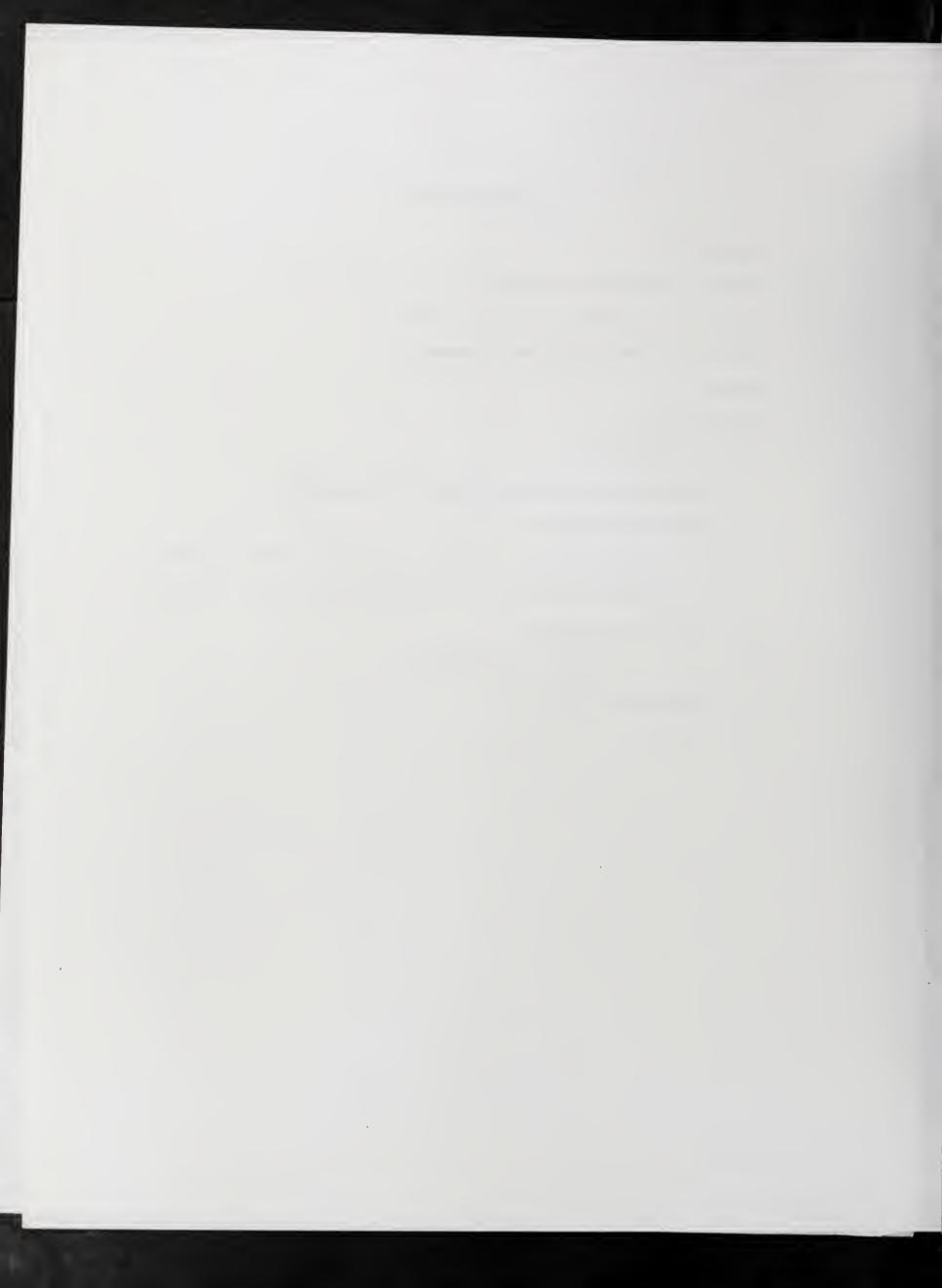




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INTRODUCTION

This report has been prepared by the Illinois Environmental Protection Agency (Agency) pursuant to Section 17.1 of the Illinois Environmental Protection Act (Act). The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to the groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

The Toluca has two public water supply wells. The facility produces 168,200 gallons per day to an estimated population of 1,500. See Table I for a description of each well. Both wells utilize a deep bedrock aquifer which is overlain by permeable sand and gravel and relatively impermeable till. Permeability is the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility wells Report (Appendix C).

TABLE 1

| Well | Minimum Setback (Ft.) | Maximum Setback (Ft.) | Status | Capacity (gpm) (MGD) | Specific Capacity (gpm/ft) | Treatment | Aquifer | Well Depth (Ft.) | Well Logs Available |
|--------------------|-----------------------------|-----------------------------|--------|----------------------|----------------------------------|-----------|-----------------|------------------------|---------------------------|
| Well #2 (31315) | 200 | No | A | 160 0.23 | 2.26 | cl. | Deep Bedrock | 1870 | yes |
| Well #3 (31316) | 200 | No | A | 210 0.30 | 1.42 | cl. | Deep Bedrock | 1852 | yes |

A=Active

GROUNDWATER SAMPLING/MONITORING HISTORY

The public water supply wells at Toluca were sampled as part of the Statewide Groundwater Monitoring Network on May 5, 1987. The samples were analyzed for volatile aromatic and organic chemicals (VOC/VOA) and inorganic chemicals (IOC). The VOC/VOA analyses performed detected no quantifiable levels of organic chemicals in either well. The IOC analyses performed found the water from Well No. 3 to meet all general use guidelines and the water from Well No. 2 to have an elevated level of iron. See Appendix E for detailed sampling results.

SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes and possible problem sites to your water supply well(s). The location of potential sources, routes, possible problem sites, water supply wells, minimum setback zones, and 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile

for each well. The second and following pages of the survey inventory units within and bordering a 1,500 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized for agricultural production). The Agency five-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

Survey Results and Findings:

The well site survey of Toluca was conducted on June 5, 1989 and again on December 4, 1992 by Gregory White, Environmental Protection Specialist from the Agency's Rockford Regional Office. The following describes the results and findings for Toluca.

Toluca Well #2 (31315). The survey area is rural partly of moderate density residential housing, partly of commercial businesses, and partly of open space. The well is located at the corner of Railroad Avenue and Main Street. There are no visible potential sources, routes, or possible problemsites located within the minimum setback zone (200 ft.). Five possible problem sites are located outside the minimum setback zone, but within the survey area (1500 ft.). These possible problem sites are Toluca Standard Service (map code 3) located 1100 feet northof the well, Imm & Son Chevrolet-Cldsmobile (map code 4) located 475 feet north of the well, the bulk fuel or fertilizer tank (map code 5) located 300 feet southwest of the well, Burroughs Trucking Co. (map code 6) located 600 feet southwest of the well, and Grandview Service Co. (map code 7) located 400 feet south of the well.

Toluca Well #3 (31316). The survey area is rural partly of moderate density residential housing, partly of commercial businesses, and partly of open space. The well is located on 3rd Street inbetween Chestnut and Cedar Streets. There are no visible potential sources, routes, or possible problemsites located within the minimum setback zone (200 ft.). Two possible problem sites are located outside the minimum setback zone, but within the survey area (1500 ft.). These possible problem sites are Freedom Oil (map code 2) located 1000 feet southeast of the well and Toluca Standard Service (map code 3) located 1350 feet south-southeast of the well.

SUMMARY

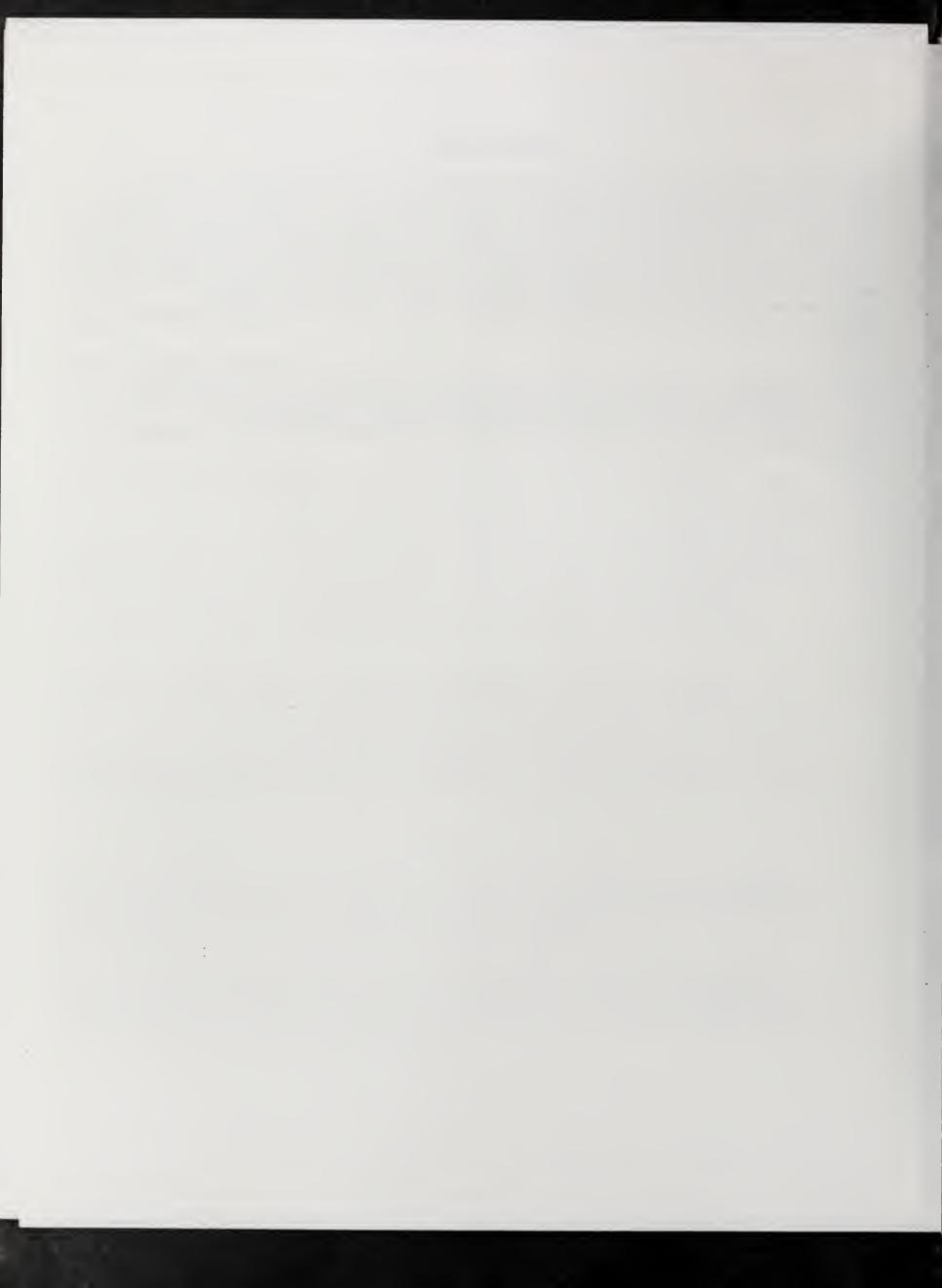
The well site survey conducted located no possible problem sites within the minimum setback zone of either well, but did locate several possible problem sites within the survey area of both wells. The sampling and monitoring cinducted to date has detected no contamination in the groundwater utilized by the facility.

The Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the Agency. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the control would then be assumed by the local officials through adoption of a maximum setback zone ordinance.

RECOMMENDATIONS

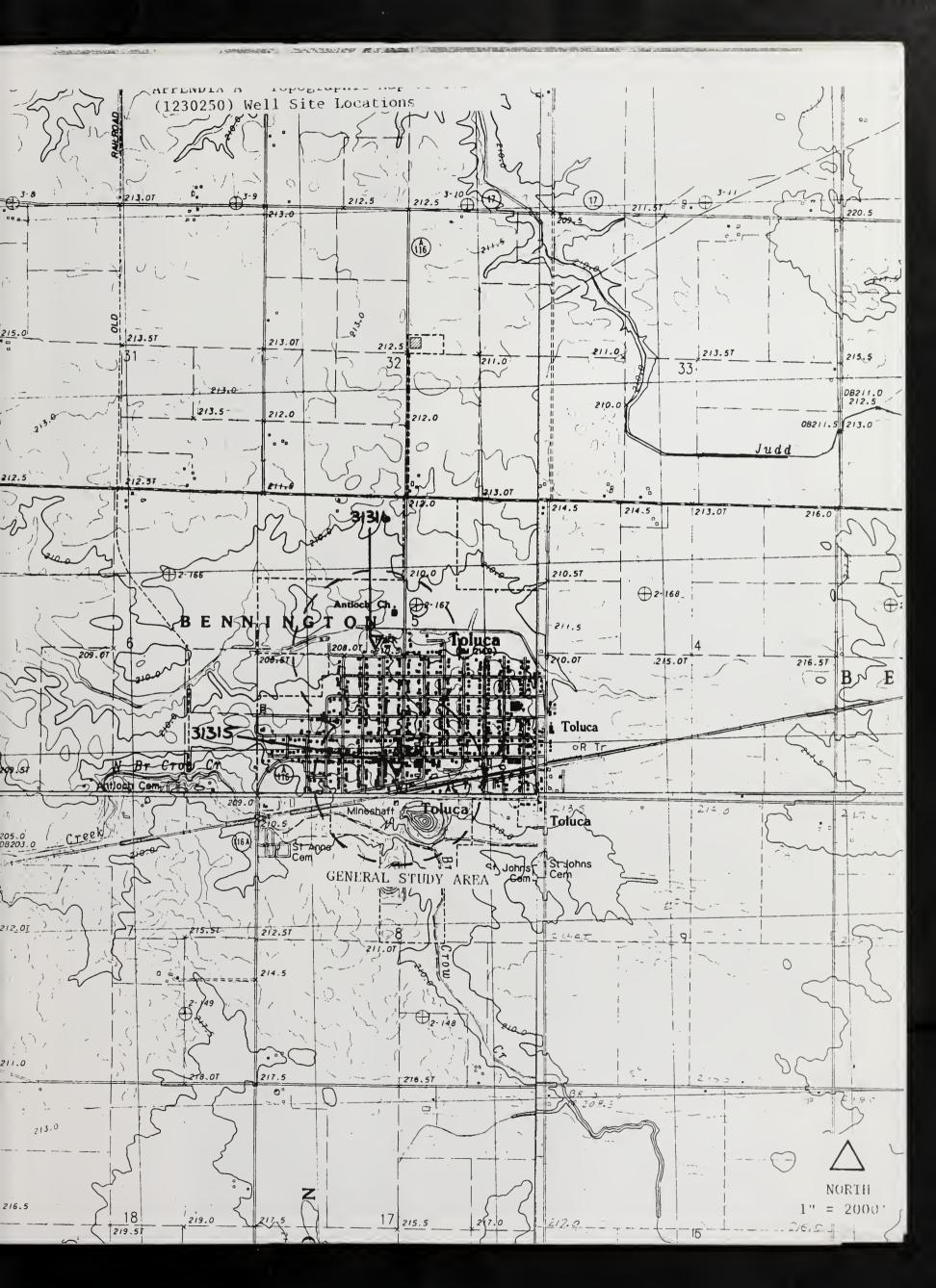
The Agency strongly urges Toluca to consider establishing a maximum setback zone ordinance for its wells. Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination up to 1000 feet from respective wellheads. Regulatory coverage of certain existing activities could be expanded upon adoption of proposed regulations currently before the Illinois Pollution Control Board. To aid you in the development of further regulatory coverage for your well supply, the Agency prepared a "Maximum Setback Zone Workbook" that provides detailed case studies of how to establish maximum setback zones. This text and further technical assistance is readily available form the Agency and the Illinois State Water Survey.

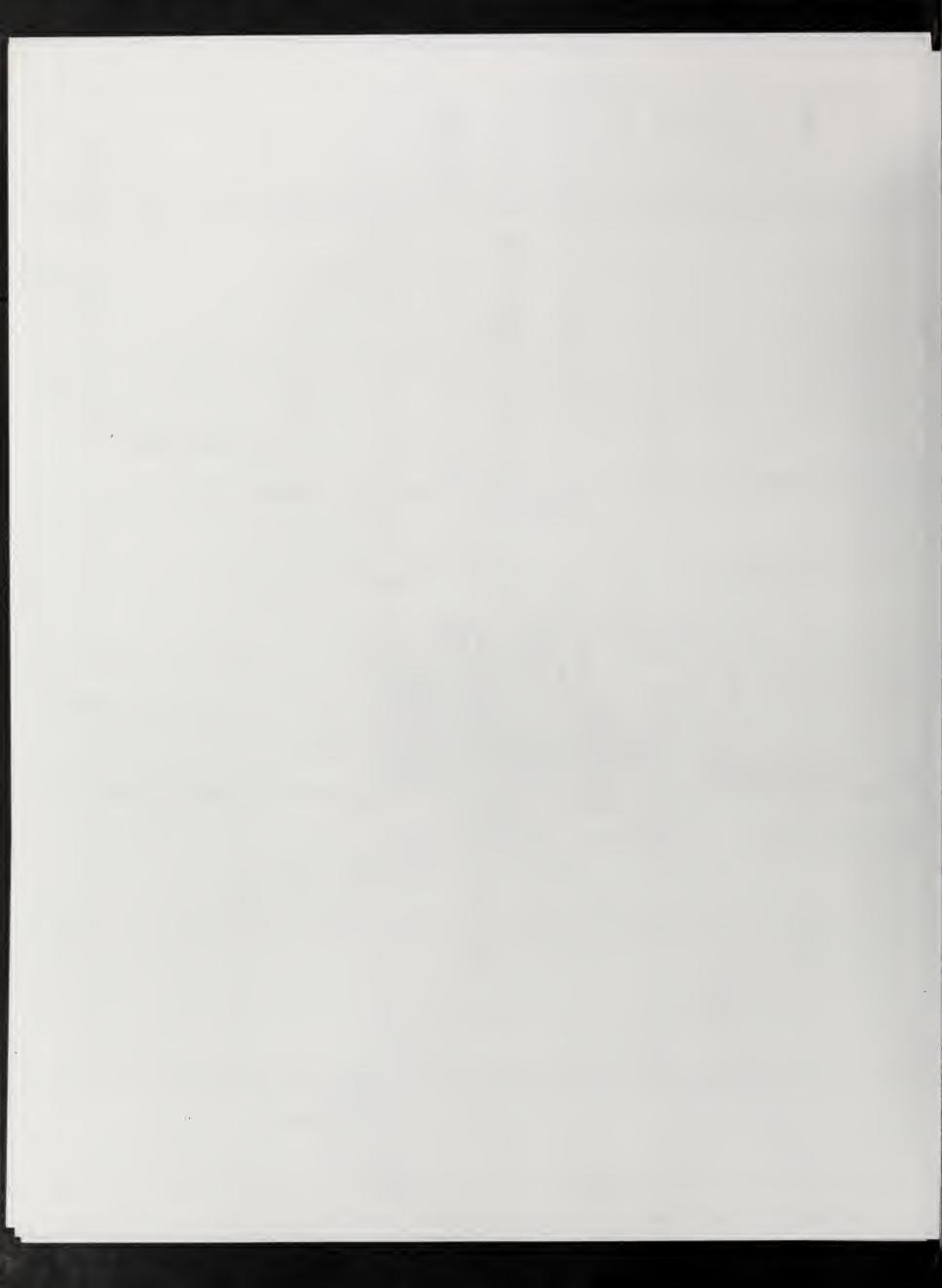
Local governments are also encouraged to consider conducting groundwater protection needs assessments. Any county or municipality having a population less than 25,000 or 5,000 persons respectively, may request the Agency to conduct a hazard review in lieu of a need's assessment. The Agency may issue an "advisory of groundwater contamination hazard" if a significant hazard to the public health or the environment exists.

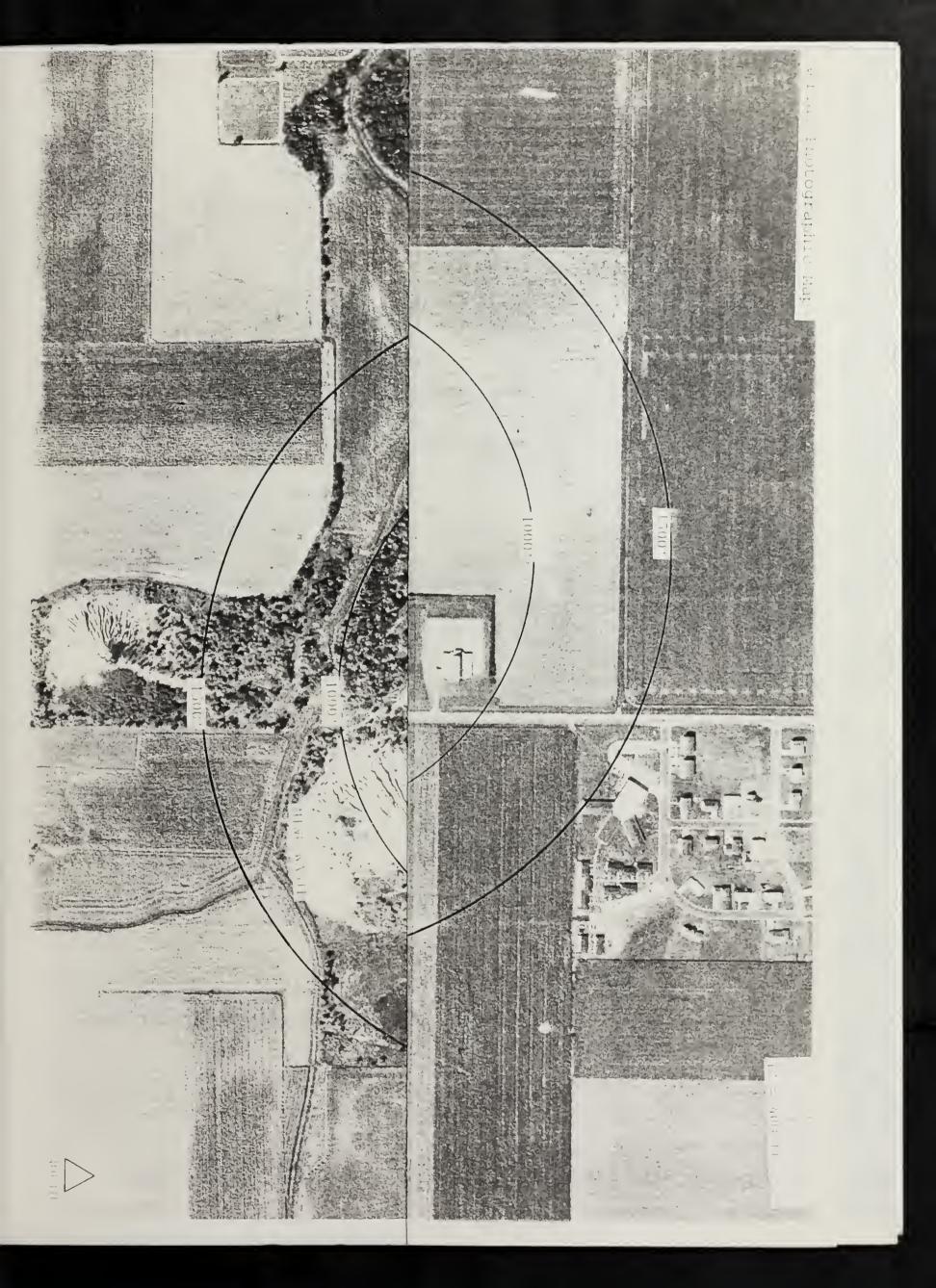


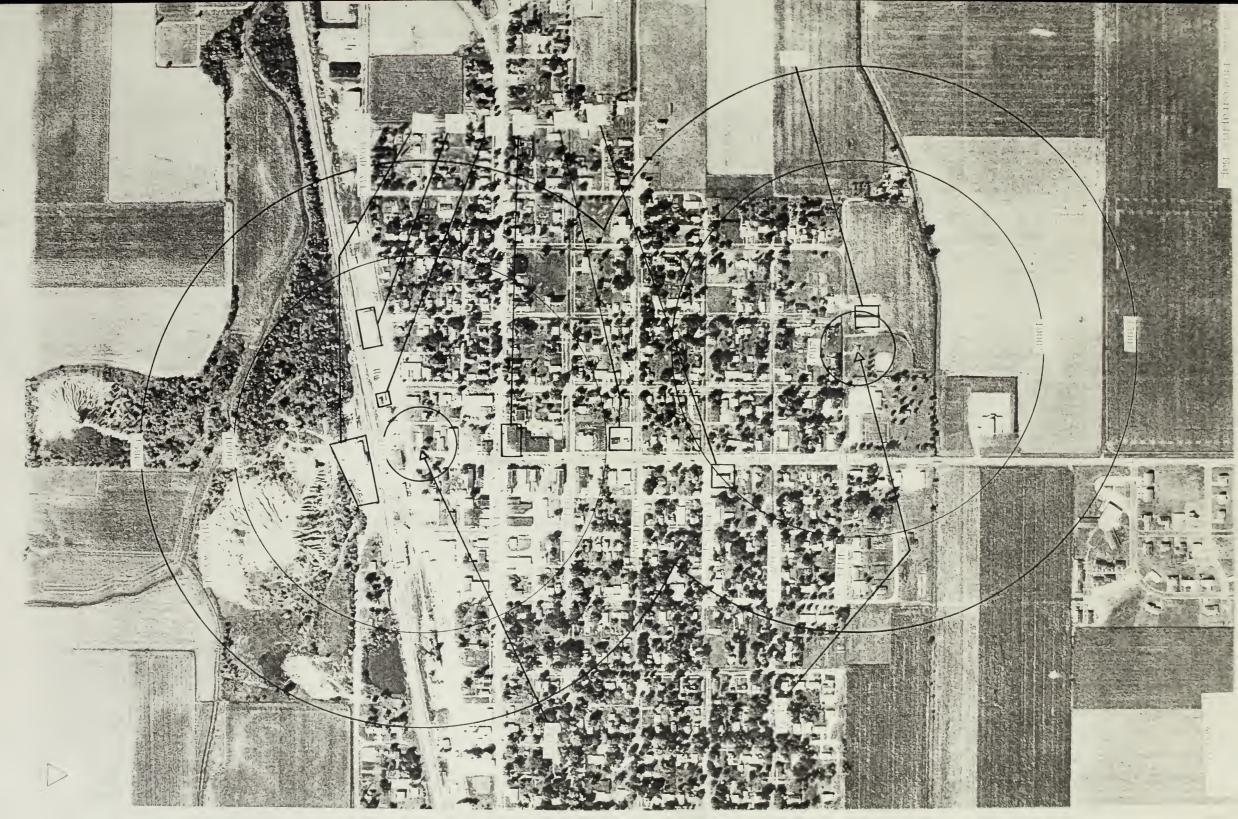
TECHNICAL APPENDICES











APPENDIX B1-Toluca Well #2 (#31315) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: SURVEY DATE: ADDRESS:

WHITE 6-5-89

> Larry Harber Village Hall

102 N. Main Box 195 Toluca, Il. 61319

AGENCY WELL NO.:

WELL NAME & DESCRIPTION:

31315

Well #2

TAP:

FACILITY NO. & NAME: FACILITY PHONE CONTACT:

QUAD SHEET CODE & NAME:

1230250, Toluca (815) 452-2809

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT: DISTANCE FROM CORNER SECTION:

29N, 01E, 05, 5A 350 N, 2480 W 079C, Varna Quad

MINIMUM SETBACK:

MAXIMUM SETBACK:

GEOLOGIC SUSCEPTIBILITY RATING:

C2: sand and gravel within 20 to 50 ft. of surface, overlai and underlain by relatively impermeable till, other fine-grained material, and/or bedrock

AGE OF WELL: WELL DEPTH: DEPTH OF CASING:

1951 1870 ft. 1358 ft.

200 ft.

AQUIFER CODE:

6080 - Deep Bedrock

MULTIPLE AQUIFER (Y, N):

Yes

SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA: survey area is rural partly of moderate density residential housing, partly of commercial businesses, and partly of open space

INTERVIEW(S):

NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B1-Toluca Well #2 (#31315) INVENTORY AND SYNOPSIS OF UNIT(S)

CLASSIFICATION KEY INSIDE MINIMUM ZONE PP = POTENTIAL PRIMARY PS = POTENTIAL SECONDARY RI = ROUTE CC = CERTIFIED XI = UNKNOWN CU = CLEANUP CLASSIFICATION KEY OUTSIDE MINIMUM ZONE OP = POTENTIAL PRIMARY OS = POTENTIAL SECONDARY CC = CERTIFIED CC = CERTIFIED

WELL NO. - MAP CODE - CLASSIFICATION: 31315-01

NAME & ADDRESS OF UNIT OWNER: Bernardi Italian Foods, 301 W 3rd Street, Toluca, Il., 61319

DESCRIPTION & COMMENTS: food processing plant

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 2400 ft. north-northwest of well

WELL NO. - MAP CODE - CLASSIFICATION: 31315-02-05

NAME & ADDRESS OF UNIT OWNER: Freedom Oil Co., 404 N. Main Street, Toluca, Il., 61319

DESCRIPTION & COMMENTS: gas station, 2 registered underground tanks, OSFN # 3-015789

PRE OR POST (Y or N)! Yes

DISTANCE & DIRECTION: 1625 ft. north-northeast of well

WELL NO! - MAP CODE - CLASSIFICATION: 31315-03-05

NAME & ADDRESS OF UNIT OWNER: Toluca Standard Service, 219 N. Main Street, Toluca, Il., 61319

DESCRIPTION & COMMENTS: gas station, 5 registered underground tanks, OSFM # 3-013161

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 1100 ft. north of well

WELL NO. - MAP CODE - CLASSIFICATION: 31315-04

NAME & ADDRESS OF UNIT OWNER: Imm & Son Chevrolet-Oldsmobile, 101 N. Main Street, Toluca, Il., 61319

DESCRIPTION & COMMENTS: new and used dar sales and service

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 475 ft. north of well

APPENDIX B1-Toluca Well #2 (#31315) INVENTORY AND SYNOPSIS OF UNIT(S)

| | CLASSIFICATION | KEY |
|----------------|----------------|--------------------------|
| INSIDE MINIMUM | ZONE | OUTSIDE MINIMUM ZONE |
| PP = POTENTIAL | PRIMARY | OP = POTENTIAL PRIMARY |
| PS = POTENTIAL | SECONDARY | OS = POTENTIAL SECONDARY |
| RI = ROUTE | | OR = ROUTE |
| CC = CERTIFIED | | CC = CERTIFIED |
| XI = UNKNOWN | | OX = UNKNOWN |
| CU = CLEANUP | | CU = CLEANUP |

WELL NO. - MAP CODE - CLASSIFICATION: 31315-05-OS

NAME & ADDRESS OF UNIT OWNER: Burroughs Trucking, W. Railroad Ave., Toluca, Il., 61319

DESCRIPTION & COMMENTS: one above ground fuel or fertilizer storage tank, secondary containment, approximite capacity 25,000 gal.

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 300 ft. southwest of well

WELL NO. - MAP CODE - CLASSIFICATION: 31315-06

NAME & ADDRESS OF UNIT OWNER: Burroughs Trucking, W. Railroad Ave., Toluca, Il., 61319

DESCRIPTION & COMMENTS: trucking company garage and offices

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 600 ft. southwest of well

WELL NO. - MAP CODE - CLASSIFICATION: 31315-07-OS

NAME & ADDRESS OF UNIT OWNER: Grandview Service Co., Railroad Ave., Toluca, Il., 61319

DESCRIPTION & COMMENTS: farm service ag-chem facility, above ground and portable fertilizer storage tanks

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 400 ft. south of well



APPENDIX B2-Toluca Well #3 (#31316) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: SURVEY DATE:

ADDRESS:

WHITE 6-5-89

Larry Harber Village Hall

102 N. Main Box 195 Toluca, Il. 61319

AGENCY WELL NO.:

31316

WELL NAME & DESCRIPTION:

Well #3

TAP:

02

FACILITY NO. & NAME: FACILITY PHONE CONTACT:

QUAD SHEET CODE & NAME:

1230250, Toluca (815) 452-2809

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT: DISTANCE FROM CORNER SECTION:

29N, 01E, 05, 5E 2557 N, 2090 W 079C, Varna Quad

MINIMUM SETBACK:

200 ft.

MAXIMUM SETBACK:

GEOLOGIC SUSCEPTIBILITY RATING:

C2: sand and gravel within 20 to 50 ft. of surface, overlai and underlain by relatively impermeable till, other fine-grained material, and/or bedrock

AGE OF WELL: WELL DEPTH:

1965 1852 ft.

DEPTH OF CASING:

1367 ft.

AQUIFER CODE:

6080 - Deep Bedrock

MULTIPLE AQUIFER (Y, N):

Yes

SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA: survey area is rural partly of moderate density residential housing, partly of commercial businesses, and parly of open space

INTERVIEW(S):

NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B2-Toluca Well #3 (#31316) INVENTORY AND SYNOPSIS OF UNIT(S)

CLASSIFICATION KEY

MINIMUM ZONE

PP = POTENTIAL PRIMARY

PS = POTENTIAL SECONDARY

RI = ROUTE

CC = CERTIFIED

XI = UNKNOWN

CU = CLEANUP

OUTSIDE MINIMUM ZONE

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

CO = CERTIFIED

OX = UNKNOWN

CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 31316-01

NAME & ADDRESS OF UNIT OWNER: Bernardi Italian Foods, 301 W 3rd Street, Toluca,

Il., 61319

DESCRIPTION & COMMENTS: food processing plant

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 150 ft. west of well

WELL NO. - MAP CODE - CLASSIFICATION: 31316-02-0S

NAME & ADDRESS OF UNIT OWNER: Freedom Oil Co., 404 N. Main Street, Toluca, Il., 61319

DESCRIPTION & COMMENTS: gas station, 2 registered underground tanks, OSFM # 3-015789

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 1000 ft. southeast of well

WELL NO. - MAP CODE - CLASSIFICATION: 31316-03-08

NAME & ADDRESS OF UNIT OWNER: Toluca Standard Service, 219 N. Main Street, Toluca,

Il., 61319

DESCRIPTION & COMMENTS: gas station, 5 registered underground tanks,
OSFM # 3-013161

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 1350 ft. southeast of well

WELL NO. - MAP CODE - CLASSIFICATION: 31316-04

NAME & ADDRESS OF UNIT OWNER: Imm & Son Chevrolet-Oldsmobile, 101 N. Main Street, Toluca, Il., 61319

DESCRIPTION & COMMENTS: new and used car sales and service

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 1900 ft. south-southeast of well

APPENDIX B2-Toluca Well #3 (#31316) INVENTORY AND SYNOPSIS OF UNIT(S)

CLASSIFICATION KEY

MINIMUM ZONE

PP = POTENTIAL PRIMARY

PS = POTENTIAL SECONDARY

RI = ROUTE

CC = CERTIFIED

XI = UNKNOWN

CU = CLEANUP

OUTSIDE MINIMUM ZONE

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

CO = CERTIFIED

OX = UNKNOWN

CU = CLEANUP

WELL NO. - MAP CODE - CLASSIFICATION: 31316-05-0S

NAME & ADDRESS OF UNIT OWNER: Burroughs Trucking, W. Railroad Ave., Toluca, Il., 61319

DESCRIPTION & COMMENTS: one above ground fuel or fertilizer storage tank, secondary containment, approximite capacity 25,000 gal.

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 2550 ft. south of well

WELL NO. - MAP CODE - CLASSIFICATION: 31316-06

NAME & ADDRESS OF UNIT OWNER: Burroughs Trucking, W. Railroad Ave., Toluca, Il., 61319

DESCRIPTION & COMMENTS: trucking company garage and offices

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 2600 ft. south of well

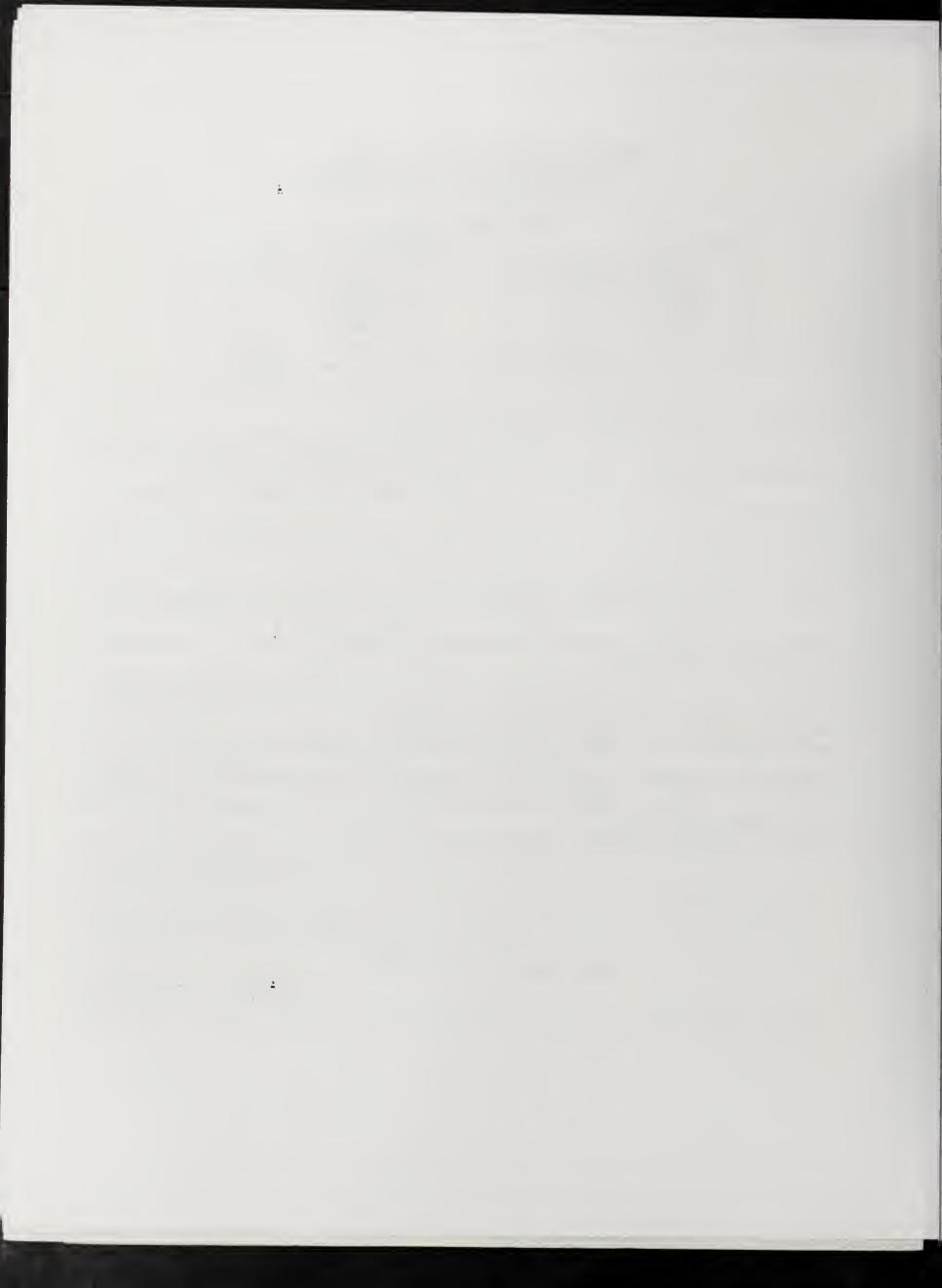
WELL NO. - MAP CODE - CLASSIFICATION: 31316-07-0S

NAME & ADDRESS OF UNIT OWNER: Grandview Service Co., Railroad Ave., Toluca, Il., 61319

DESCRIPTION & COMMENTS: farm service ag-chem facility, above ground and portable fertilizer storage tanks

PRE OR POST (Y or N): yes

DISTANCE & DIRECTION: 2750 ft. south-southeast of well



APPENDIX C



ILLINGIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC MATER SUPPLIES FACILITY WELLS REPORT REPORT: SWGWROSS MODULE: PWGWROS7

FACILITY: 1230250 IDLUCA.

DAGE: 6

| | H 0 | TO BOT (FT): 0.00 TO BOT (FT): 0.00 TO BOT (FT): 0.00 |
|--|--|--|
| OFFICIAL_CUSTODIAN | DRILLED DEPTHCF ANG: 01E SEC: 0.00 DEPTH TO | T): 0.00 DEPTH TO B T): 0.00 DEPTH TO B T): 0.00 DEPTH TO B |
| | SPREADING: SPREADING: DEPTH TO TOP (FT) ALENA-PLATTEVILLE OST ACTIVE | SPREADINGS. DEPTH TO TOP CF DEPTH TO TOP CF ALENA-PLATTEVILLE |
| | SUSCEPTIBILITY D.CODE: UNKNOWN MATL: NOT APPLI MATL: NOT APPLI MATL: NOT APPLI MATL: NOT APPLI LONGITUDE: WOR9 | D.CODE: UNKNOW MATL: NOT APPL MATL: NOT APPL MATL: NOT APPL |
| LAREY HARBER CITY HALL 102 N. MAIN TOLUCA IL 61369 | WELL: 31315 WELL #2 LATITUDE: 141 00 03.0 SUSCEPTIBILITY - LAND BURIAL: C2 ALTITUDE CFT): O.00 ALTITUDE METHD INTERVAL 2 - TYPE: - N/A SCREEN INTERVAL 2 - TYPE: - N/A SCREEN INTERVAL 2 - TYPE: - N/A SCREEN AQUIFERS: ANCELL GROUP LATITUDE: N41 00 25.0 | ALTITUDE CFT):O_COALTITUDE_METHO INTERVAL_1 - TYPE:N/A SCREEN INTERVAL_2 - TYPE:N/A SCREEN INTERVAL_2 - TYPE:N/A SCREEN AQUIFERS: ANCELL GROUP |

SUSCEPTIBILITY CODES

LAND SURIAL: C2 = SAND AND GRAVEL WITHIN 20 TO 50 FT DE SURFACE» OVERLAIN AND UNDERLAIN BY RELATIVELY. IMPERMEABLE TILL, STHER FINE-SAAIMED_MATERIAL, AND/OR BEDYCCK.



APPENDIX D



PROMODER

REPORT:

PAGE:

FUND_CODE: PM30 01/12/93 ----STANDARDS----TRIGGER RECEIVED BY: MAD LAB COMPL: 02/27/90 LAB SUPERVISOR: RPF LAB SUPERVISOR: RPF. DELIVERED BY: UPS DELIVERED.BY: UPS DATES RESULT DRINK WIR . RAW WIR. ITPE MATER: G COLL_DATE:_12/14/89 LAB RCVD: 12/15/89 LAE COMPL: 02/27/90 COLL DATE: 12/14/89 10.000 4-000 SMPL PERIOD: 12/89 0.200 10-000 20-000 1000-0001 2.000 10.000 5000-000 5000.000 50.000 COMM: Y 0.100 < ▶ 000 11.000 009-1.610 473-000 - 5.000 50.000 198.000 -...45 -000 19.000 000 *615 6.000 ___2304.000 PUBLIC: Y MG/L... UNITS UM/CH MG/L 1/9n SODIUM,TOTAL RECOVERABLE MG/L.AS.NA.ANAL.BY.ICP...MG/L.ASSIUM,TOTAL RECOVERABLE MG/L.AS.K.ANAL.BY.ICP...MG/L.ALUMINUM,TOTAL RECOVERABLE UG/L.ASAL.ANAL.BY.ICP...UG/L.BARIUM,TOTAL RECOVERABLE UG/L.AS BA.ANAL.BY.ICP...UG/L. STRONTIUM.TOTAL RECOVERABLE UGZL AS SP. ANAL BY ICP UGZL. VANADIUM.TOTAL RECOVERABLE UGZL ASV ANAL BY ICP UGZL. BERYLLIUM, TOTAL RECOVERABLE UG/L.AS..BE.ANAL BY ICP. UG/L CADMIUM, TOTAL RECOVERABLE UG/L.AS.CD. AMAL BY ICB. UG/L CHROMIUM, TOTAL RECOVERABLE UG/L. ASCR.ANAL BY ICB... UG/L. MANGANESE, TOTAL, RECOVERABLE, UG/L. AS MN ANAL. BY ICP. UG/L MAGNESIUM, TOTAL RECOVERABLE MG/L AS. CA AMAL BY ICP MG/L SELECTED SAMPLE SYPANDED REPORT NICKEL, TOTAL RECOVERABLE UGZL. AS NIJANAL BY ICP. CALCIUM. TOTAL RECOVERABLE MG/L AS CA AMAL BY ICP. SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP. STATUS: A IRON, TOTAL RECOVERABLE, UGZL AS FEANAL BY ICP ZINC. TOTAL RECOVERABLE UGZL AS ZN ANAL BY ICP. STATUS BORON, TOTAL RECOVERABLE UGZL AS D ANAL BY ICP. STATUS FLUORIDE, TOTAL MG/L. AS F CONDUCTIVITY(EC)-LABCUMHOS/CH @ 25 C MERCURY, TOTAL UG/L AS HG SELENIUM, TOTAL RECOVERABLE UG/L ASSE ARSENIC, TOTAR RECOVERABLE UGZL. AS. AS MITROGEN, AMMENIA TOTAL MGZL AS N SULFATE, TOTAL MG/L AS SD4.
NITRATE & NITRITE TOTAL MG/L. AS.N. LEAD, TOTAL RECOVERABLE UGZL AS PB CHLURIOE TOTAL MG/L AS CL. SILICA, TOTAL MGZL AS S102 LOCATION: TOLUCA WELL 3 LOCATION: IDLUCA WELL 2 CYANIDE, TOTAL MGZL AS CN. 82394... HARDNESS. CALC - MG/L... COLLECTOR: L DURHAM CULLECTOR: L DURHAM PH LABORATORY UNITS DESCRIPTION ANALYSIS ASLT -----STORET----CONMENTS COMMENTS: **OBSRVATNS:** FACILITY: 1230250 TOLUCA SAPL PROG: C-CHEMICAL SMPL PUSP: 1-ROUTINE SAMPLE, ND:_B91823800 01077___ SAMPLE NO: 891823900 SMPL PURF: 1-ROUTINE 00600 15600 0.0940 01034 01055 0000 70300 00410 00945 0630 01906 00356 20016 00916 01007 01012 01067 01032 01087 01092 01051 71900 01105 01342 01037 00927 00937 NO..... NO. SMPL.. TYPE: RAM SMPL TYPE: KAH 107 T000 ___ 001 PAGHM026 100T001 1037000 101TJ00 103TS0C 110T000 1517100 177T100 177T 100. __1777100 OCTILIO 105T000 111T090 114T000 177T100 177T199 1777100 1777100 77T1C3 177T190 1777100 177T19G RAM SACE:

| 043 | -€ |
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| d#SP d | CALTLO |
| •• | |
| REPOS | HOOK |
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ILLINOIS ENVIRONMENTAL PROTECTION ASENCY DIVISION OF PUBLIC WATER SUPPLIES

FUND CODE: PH30 DATE: 01/12/93 TRIGGER LEVEL -----STANDARDS-----PAGES RAL LIR SMPL PER100: 12/89 DRINK WTR 1000-000 1000-0001 150.000 RESULT 1. 490 34.002 5.000 7-900 2230-002 209-000 57-000 000-159 448-000 2405-000 255-066 ** CONTINUED ** MANGANESE, TOTAL RECOVERABLE UGZL AS MN. ANAL BY ICP UGZL NICKEL, TOTAL RECOVERABLE UGZL AS NI ANAL BY ICP UGZL SILVER, TOTAL RECOVERABLE UGZL AS AG ANAL BY ICP UGZL BERYLLIUM, TOTAL RECOVERABLE UG/L AS. BE. ANAL BY ICP. US/L 1/9n UG/L STRONTIUM, TOTAL RECOVERABLE UGZL AS SR. ANAL BY ICP UGZL SELECTED SAMPLE EXPANDED PEDDAT SELENIUM, TOTAL RECOVERABLE UG/L ASSE CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP MAGNESTUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP POTASSIUM, TOTAL RECOVERABLE MG/L AS KANAL BY ICP ALUMINUM, TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP VANADIUM.TGTAL RECOVERABLE UGZL_ASV.ANAL_BY_ICP___ CHROMIUM, TGTAL RECOVERABLE USZL ASCR_ANAL_BY_ICB_ CADMIUM. TOTAL RECOVERABLE. UG/L. AS CD_AMAL_BY_ICB. BARIUM. TOTAL, RECOVERABLE UGZL. AS BA ANAL BY ICP. COPPER, TOTAL RECOVERABLE UGZL AS CU. ANGL. BY_ICP. COBALT. TOTAL RECOVERABLE UGZL AS CO ANAL BY ICP ZINC. TOTAL RECOVERABLE UGZL AS ZN ANAL BYLICP BORON.TOTAL RECOVERABLE UGZL AS B. ANAL SY ICP IRON. TOTAL RECOVERABLE, UG/L. AS. FEANAL BY. ICP. CONDUCTIVITY (EC) - LAB (UMHOS / CM 3 25 C. CYANIDE. TOTAL MG/L AS CN ARSENIC. TOTAR RECOVERABLE UG/L AS AS RESIDUE. TOTAL FILTERABLE GIBO C. MG/L NITRATE & NITRITE TOTAL MG/L AS N. LEAD, TOTAL RECOVERABLE UG/L AS PB NITROGEN. AMMONIA TOTAL MGZL AS N. ALKALIMITY, TOTAL MG/L AS CACO3_HARDNESS, EDTA MG/E AS CACO3_____ CHLORIDE, TOTAL MGZL AS CL. SILICA TOTAL MGZL AS .. \$102.. SULFATE, TOTAL MGZL AS 504 FLUDRIDE, TOTAL MGZL 45 F MERCURY, TOTAL UGZL AS HG HARDNESS, CALC - MG/L PH LABORATORY UNITS ANALYSIS RSLT -----STORET-----DESCRIPTION SAPL_PROG .. C-CMEMICAL .. OUSRVATNS .. FACILITY: 1233250 JOLUCA 01045 01037_ 70300 01055. 21067 01082 00410 0.0934 06900 01900 95600 01034 00600 01002 11900 00916 00927 00929 01165 01022 01012 01042 15010 01092 02951 00945 01051 19937 01027 01077 01147 01007 NON 05T000 00CT80: 177.T 100. 153T000 155T000 116TS95 1011990 103T90 CH

| | PWGWP048 | REPORT: |
|--|----------|---------|
|--|----------|---------|

| PROTECTION AGENCY | SUPPLIES | D REPORT |
|-------------------|--------------|--------------------------|
| | PUSLIC WATER | E EXPANDE |
| ENVIRONMENTAL | 7 OF | SELECTED SAMPLE EXPENDED |
| ILLINDIS | DISINIO | SELEC |

| PAGE: 19 DATE: 01/12/93 | | RECEIVERED BY: RECEIVED BY: B SUPERVISOR: FUND CODE: | HATE LEVEL | | | | | | | | | | | | : | | | | | | | | | | | | | | | | 1 | | |
|--|--|---|-----------------|-------------------------|--|---|----------------------------|-------------------------------|---|-------------------------|--|-----------------------------|--|------------------------------|--|-----------------------------|--|-----------------------------|--|---------------------------|-------------------------------|-------------------------|-------------------------|---|---------------------------|---------------------------|----------------------------|--------------------------|------------------|--------------------------|---|---|--|
| | COMM: Y IYRE WATER: G | COLL DATE: 05/05/87 D LAB RCVD: 00/00/00 LAB COMPL: 00/00/00 LAB SMPL PERIOD: 05/87 | RESULTDRINK WIR | .300 | 0.100 < 10.000 | 0.010 < | 19-00 | - 6 | 254.000 | 1.560 4.000 | 1.009 < 50.000 | .000 1000.00 | 775-000 | 00 - 00 | 5-000 < 50-000 5-000 < | 5.000 < 5000. | 153 - 006 - 1000 - 000 * 5 - 000 - 5 0 - 000 | .000 | 3.000 < 50.000 | 30.000 | 50.000 5 5000 5000 | 000°C | • | 370_000 | 0.95 | 24.500 | 12.00 | 00.00 | 0 0 | 10.00 | : | | |
| ILLINGIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECIED SAMPLE EXPANDED REPORT | E SF RAILWAY STATUS: A PUBLIC: Y STATUS: A STATUS: A | MPL COLLECTOR | UNITS | AL MGZL. AS N | | S CN PABLE MG/L AS CA. | VERABLE, MG/L AS CALANAL E | VERABLE HG/L AS K ANAL BY ICP | \$04 | AS F | S SIUZ ERABLE UG/L AS AS | ABLE UGZL AS BA ANAL BY ICP | 2 | NABLE UGZL AS CD ANAL BY ICI | ASCE AND | ABLE UG/L AS CU ANAL BY ICP | LE, UG | VERABLE US/L.AS.MN | AS NI | VERABLE UGZL AS. SR. ANAL | VERABLE UG/L ASV. ANAL BY ICP | ERABLE UG/L ASAL ANAL A | ERABLE UGZL ASS | VERBELE UG/L | 2 H C | EG C | OTENTIAL CEH) MILLIVOLTS 3 | ZCM a 25 C 25 | RIOR TO SAMPLIN | TO HAT | | | |
| | 0_TDLUCA 1_1/2 3LDCK_W_OF_116A AT_AT 5_WELL_#2 | 02138 LOCATION: WELL WECKLOTHE COMMENTS: GWM INDRG OBSRVATNS: | HO DESCRIPTION | 0610HITRDGEN.AMMONIA_TO | O NITRATE & NITRITE T 5 — PHOSPHORUS, TOTAL M | 0720 CYANIOE, TOTAL MG/L 0916 CALCIUM, TOTAL RECOV | 0927 MAGNESIUM, TOTAL REC | 0337 POTASSIUM, TOTAL REC | 940 CHLUKIDE, IUIAL MU/L 945 SULFATE, TOTAL MG/L | 0951FLUURIDE,TOTAL,MG/L | 6 - SILICA(IUIAL MUZLIA 2 - ARSENICATOTAR RECOV | 1007 BARIUM, TOTAL RECOVE | 2 BERYLLIUM•TOTAL REC 2 BORON.TOTAL RECOVER | 1027 CADMIUM, TOTAL RECOV | 1034 CHROMIUM,TOTAL RECO 1037 COBALT,TOTAL RECOVE | 1042 COPPER, TOTAL RECOVE | 1045 - IRON,TOTAL RECEVERA 1051 - LEAD,TOTAL RECOVERA | 1055 . MANGANESE, TOTAL REC | 7 NICKEL,TOTAL RECOVE 7 SILVER,TOTAL RECOVE | 1032 STRONTIUM, TOTAL REC | 1087VANADIUM,TOTAL RECO | 1105ALUMINUM,TCTAL_RECO | 1147SELENIUM,TOTAL RECO | 730 PHENOLS, IDIAL.RELD 300 - RESIDUE, TOTAL FILTS | 1900_ MERCURY, TOTAL UGZL | 010 - WATER TEMPERATURE O | 0090. DXIDATION-REDUCTIO | 0005 CONDUCTIVITYCEC)-LA | 4 FLOW (PUMPING) | 2019 DEPTH FROM LAND SUR | | | |
| REPORT: PWGWP048 | FACILITY: 123025(| SAMPLE NJ: ZO SMPL TYPE: RA SMPL PURP: 5- | ANALYSIS RSLT | 0000 | 0000010000 | 000 | 000001-00 | 000001 00 | 00001 | 00000101 | 10- 10 | 000001 01 | 0 100000 | 000001 01 | 000001 01 | 00001 02 | 900001 62 009001 02 | 000001 02 | | 200000 02 | 00001. 02 | 00001-02 | 00001 03 | | 000001 03 | 000 | 000001-03 | 000001 0 | 01 03 | 000001 04 | | * | |

| 20 | | RED BY: YED BY: RWISOR: | TRIGGER | | | | | | 35 | 2.7 | 100 | 31 | | 36 | 34 | | | | | 1 | 5 | 7 | 0, 0 | | SUPERVISOR: |
|---|-------|---|---------------------|---|---------------|-----------------------------------|-------------------------------------|--------------------------------------|--------------------------------|---|---------------------------|--|-------------------|------------------|-------------------------------------|----------------|--------------------------------|---------------------------------|------------------|---|------------------------------------|-----------------|----------------|---------------|-------------|
| PAGE | | 3/34 DELIVE 4/84 RECEI LAB SUPE 4 | STANDARDS | | 0 | 0 | | | | 0 | 0 | | 0 | 0 | | # O | 0 | 0 | | | | | | 9 | LAB |
| | 000 | COLL DATE: 05/0 LAB RCVD: 06/0 LAB GOMPL: MPL PERIOD: 05/8 | SULT DRINK WIR | | -100 < 10.000 | 000 | 200 | 000 | 0 | 00 - 4 - 00 | 000< 50_00 000 1000_00 | | 000 - 4 - 10 - 00 | 000 < | 0 - 2000 - 00 | 000 | 00. | 000 | 0.00 | 000 5000-000 | 000 × 10.000 | | 100.c2_000 | DATE | 700 |
| PPLICS EPDRI | 254 | 45 | UNITS | 2610 | | 206 | 7 | | | 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 43. | 0 77 | 5 | . 5 | 400 | 007 | 12. | 2200 | | 15. | 4 | 1570 | 0 | | |
| MARLE EXPANDED REP WALE EXPANDED REP WARE CONTINUED | | | | C | | CA AMAI AV TCO | S CA ANAL BY ICP | S. K. ANAL. BY | | | ANA | NAL. | ANAL B | ANAL BY | U ANAL BY ICP | | ANAL | ANA | ANAL BY ICP | AL ANAL BY ICP | | | 0 | | |
| SELECPED SA | | нам | | JMHDSZCH AS CACO | MG/L L Mč/ | AS CACO3 | VEPABLE MG/L ABLE MG/L AS | BLE_MGAL_ | AS SD4 | \$102 | A B L E | DVERABLE UG/L AS B | RAELE UGAL AS | ABLE UG/L AS C | LE UGZL AS, C • HGZI AS FF | LE UG/L AS PE | ERABLE UG/L A BLE UG/L AS N | RABLE UG/L AS A DVERABLE UG/L A | ERABLE UGZL AS | ERABLE UGZL.AS | AS | DS.MG/L.BY.EC. | AS HG | 400 10X | |
| | | LOCATION: WEEL DORN DLLECTOR: L DURN COMMENTS: BSRVATNS: | RET ESCRIPTION | DUCTIVITY(EC)-LABCU LABORATORY WNITS ALIMITY-TOTAL MG/1 | OGEN.AMMON | 555 #EDTA MG/L UM. TOTAL RECOV | SIUM, TOTAL REC UM, TOTAL RECOVE | SSIUM, TOTAL REC RIDE, TOTAL MG/L | ATE, TOTAL MG RIDE, TOTAL M | CAPTOTAL MG | TOTAL RECO | RYLLIUM, TÖTAL REC Ron, Total Recover | IUM, TOTAL REC | LT. TOTAL RECOVE | ER,TOTAL RECOVE • TOTAL:RECOVERA | TOTAL REGOVERA | *TOTAL RECOVE | TAL RECOVE , TOTAL REC | DIUM, TOTAL RECO | INUM. TOTAL REC | NIUM,TCTAL-RECO DUE,TOTAL.EILTE | L DISSOLVED SOL | URY.TOTAL UGZL | DCATION: MELL | OAMENTS: |
| 6250 TOLUCA | 1 30 | RAW 1+30UTINE I-GWM INDRG 0 | LTSTO | Z ¥ | TIN | 0916 CAL | 0327 MA 0929 SU | 0937 | 00945 SULF | 0956 SIL | 1001 | 1012 BE 1022 BO | 1027 CA | 1037 CO | 01042 CDPP | 1051LE | 1067 2 | 1077 SIL 1982 SIR | 108 | 1105 A | 1147S 0300 .R | 0304_T0J | וֹ ס | Z002137C | -SPEC/DIHR_ |
| MODULE:PWGMM026 FACILITY:1230 | 00000 | SAMPLE_NO: SAMPL TYPE: SAMPL FURP: SAMPL PROGE | ANALYSIS RS IO N | | | | | | 3 7 8 8 8 | į | | | | | | | | | | i | | | | SAPL TYPE: | MPL_PURP:_ |

| ILLINDIS ENVIPONMENTAL P | DIVISION OF PUBLIC WA | ACOUNT CONTROL CONTROL OF THE CONTRO |
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TRIGGER DATE:... 01/12/93 TRIGGER RECEIVED_BY: FUND CODE: DELIVERED BY: LAB COMPL: 00/00/00 LAB SUPERVISOR: FUND CODE: PAGE: -----STANDARDS---------STANDARDS-----RAW WTR RAW WIR TYPE_WATER: COLL DATE: 05/05/87. LAB_RCVD: 00/00/00 SMPL PERIOD: 05/87 700-000 5-000 DRINK WIR 10.000 5.000 DRINK . WTR 1000-000 ... SMPL _PERIOD: 05/87 CDHH: Y 0.100 0.010.C .0.010 < 312-000-RESULT 47.000 21.000 .000 310-000 RESULT -PUBLIC: Y ... PROTECTION AGENCY UNITS UNITS ATER SUPPLIES ** CONTINUED *** SELECTED SAMPLE EXPANDED REPORT 004_00720__CYANIDE,TOTAL MG/L AS CH 005_00916_ CALCIUM,TOTAL RECOVERABLE.MG/L AS.CA_ANAL_BY_ICP_ 006_00927_ MAGHESIUM,TOTAL RECOVERABLE MG/L AS.CA_ANAL_BY_ICP_ STATUS: A. STATUS .. A DXIDATION-REDUCTION POTENTIAL CEH) MILLIVOLTS STATUS FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN DEPTH FROM LAND SURFACE TO WATER SURFACE. 1.1.1-1-TRICHLORDETHANE UG/L GC/MS TRANS-1.2-DICHLORDETHYLENE UG/L GC/MS CONDUCTIVITY (EC)-LABCUMHOS/CM a 25 C DC630 NITRATE C. NITRITE TOTAL MG/L AS M. COLLECTOR: ISPA SAPL COLLECTOR 0000001..001 ...00610.... NITRDGEN•AMMDNIA..TDTAL .MG/L AS.N CARBON TETRACHLURIDE UGZL CGZMS SROMODICHLOROMETHANE UGZL CGZMS DIBROMOCHLOROMETHANE UGZL GCZMS. 1,1-DICHLORDETHYLENE UG/L GC/MS TETRACHLORDETHYLENE UGZL GCZMS. 1.1-DICHLORDETHANE UG/L GC/MS .003.-.00665.-.PHOSPHORUS, TOTAL.MG/L.AS.P. FLOW (PUMPING) RATE GAL/MIN METHYLENE CHLORIDE UG/L CHLORDFORM UG/L. GC/MS.... 1,2-DICHLOROETHANE UGZL. MATER TEMPERATURE DES C TRICHLORDETHYLENE UG/L CHLOROBENZENE UGZL. BRONDFORM UGZE CGZMS LOCATIONS, WELL ETHYLBENZENE UG/L TOLUENE UG/L. DESCRIPTION ANALYSIS RSLT ----STORET----LOESCRIPTION AMALYSIS RSLT -----SIORET----BENZENE UGZL SMPL. PURP. 5-SPEC/OTHR COMMENTS: SMPL_PROG: I=GWM_INDRG_OBSRVATNS: ... DASRVATNS: PH PH UNITS 02 MELLSITE 3 FACILITY: -- 1230250 TOLUCA SAMPLE NO: 2002148 RAM SRCE: 31316 WELL 3 FACILITY: 1230250 IDLUCA ON 72019 90410 00059 32101 34423 96.55 34546 39180 00000 00000 00095 00400 32102 32106 34010 34039 34475 34301 34501 04. 34371 SAPL PROG: V-VOC SHPL_TYPE:_RAY_ 2 019 PWGWP048 PAGHM026 000000 000000 000000 1000000 1000000 1000000 1000000 1000000 1000000 000000 000000 1000000 000000 0000 000000 000000 1000000 000000 000000 000000 000000 00000 000000 0000 OI TAP REPORT: MODULES

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--007.--00929.--SODIUM, TOTAL RECOVERABLE MG/L-AS.NA.ANAL. BY. ICP

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REPORT: PWSWP048

PAGE:

01/12/93 TRIGGER LEPEL COLL DATE: 01/96/82 ... DELIVERED BYS RECEIVED BY: LAB SUPERVISOR: FUND CODE: ----STANDARDS+-----DRINK MTR. RAW MTR. LAB RCVD. 02/25/82 10.000 4.000 1000-0001 50-000 5000-000S 1000-0001 50.000 150-000 50.000 2000-0005 10-050 SMPL_PERIODS_01682 0.200 LAB COMPLE __ RESULT_ 255-000 0.005 455-000 1270.000 2230.000 2500-000 02-000 215-000 UNITS PAG CONTINUED SAR CODALT.TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS FEANAL BY ICP IRON, TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP LEAD.TOTAL RECOVERABLE UG/L AS P9. MANGANESE, TOTAL RECOVERABLE UG/L AS MI ANAL BY ICP NICKEL, TOTAL RECOVERABLE UG/L AS MI ANAL BY ICP STRONTIUM.TOTAL RECOVERABLE UGZL AS SR AHAL BY ICP. SERVILLIUM, TOTAL RECOVERABLE UGZL AS BE ANAL SY ICP. POTASSIUM. TOTAL RECOVERABLE, MGZL AS.K.AHAL BY ICP BORDN. TOTAL RECOVERABLE UG/L AS 6 ANAL BY ICP CADMIUM. TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB. CHROHIUM. TOTAL RECOVERABLE UG/L ASCR. ANAL BY ICB. ALUMINUM.IOTAL RECOVERABLE UGZL ASAL ANAL BY ICP SELCNIUM.IOTAL RECOVERABLE UGZL ASSE PHENOLS. TOTAL RECOVERABLE UGZL SARIUM JOTAL RECOVERABLE UGZL AS BA ANAL BY ICP SILVER TOTAL RECOVERABLE UGZL. AS AG ANAL BY ICP. ZINC.TOTAL RECOVERABLE UGZL AS ZN ANAL BY ICP DXID&TION-REDUCTION POTENTIAL (EH) MILLIVOLTS FLOW CPUMPING) TIME PRIOR TO SAMPLING MIN. DEPIN FROM LAND SURFACE TO MATER SUREACE RESIDUE, TOTAL FILTERABLE 3180 C.HG/L. HERCURY, TOTAL UG/L AS MG ARSENICATOTAR RECOVERABLE UGZL AS AS CONDUCTIVITY (EC)-LABCUMHOS/CH 3 25 C CONDUCTIVITY(EC)-LASCUNHOS/CM. 2 25 NITRATE & NITRITE TOTAL MGZL AS N HITROGENDAMMONIA TOTAL NGZL AS N ALKALINITY . TETAL MG/L. AS CACO3... FLOW CPUMPINGS RATE GALZHIN HARDNESS . EDT A NG/L AS CACD3 CHLORIDE TOTAL MG/L AS CL SILICA, TOTAL MGZL AS S102 SULFATE TOTAL MGZL AS_ SO4 COLLECTOR: LOUIS DURHAM CYANIDE, TOTAL MG/L AS. CN. FLUORIDESTOTAL NGZL AS F WATER TEMPERATURE DEG C PH. LABGRATORY UNITS LOCATION: WELL #3 DESCRIPTION ANALYSIS ESLI -----SIDREI----COMMENTS: SMPL PROGETI-GNM INDRG DBSRVATNS: PH PH UNITS FACILITY: 1230250_TOLUCA SMPL..PURP.: _1.-RDUIINE 00937 01012 72019 20000 00410 00000 00630 00100 00600 00351 01082 01092 01105 00035 00400 01022 01067 01077 01087 00463 SAMPLE NJ: 8031711 SHPL IYPE: RAM g 1000000 1300000 000000 1000000 000000 0000000 1000000 000000 1000000

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ILLINDIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES

-----TRIGGER DATE: 01/12/93 FUND_CODE: RECEIVED BY LAB COMPL: 00/00/00 LAB SUPERVISOR: PAGE: RAH MTR CDLL..DATE:.. 05/05/87... .. LAB RCVD: .00/30/00 ORINK WTR SMPL PERIOD: 05/87 1000-000 100-000 5-000 5-000 5.000 1000-000 150.000 5000-000 700-000 1000-0001 50-000 2000-000 50.000 10.000 4.000. < > 0000-1 > 050 0 1.3000. < 1.000 < 1-000-RESULT 1.000 000-1 3.000 5.000 2020-000 1070.000 000 420-000 UNITS SEE CONTINUED SEE SELECTED SAMPLE EXPANDED REPORT BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP.
BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP. MANGANESE, TOTAL RECOVERABLE UG/L.AS. MM_ANAL..RY_ICP. STRONTIUM, TOTAL RECOVERASLE UGZL. AS SR...ANAL -8Y...ICP. SODIUM.TETAL_RECOVERABLE MG/L AS_CA_ANAL_BY_ICP_SODIUM.TETAL_RECOVERABLE MG/L_AS_NA_ANAL_BY_ICP_ 00937...POTASSIUM, TOTAL RECOVERABLE MGZL. AS.K.ANAL BY ICP. BORON.TOTAL RECOVERABLE UG/L AS B ANAL BY ICP... CADMIUM.TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB. CHROMIUM.TOTAL RECOVERABLE UG/L ASCR. ANAL BY ICB. CALCIUM. TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP. SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL. BY.. ICP.. VANADIUM.TOTAL RECOVERABLE US/L.ASV. ANAL.BY..ICP.. COPPER, TOTAL RECOVERABLE UG/L AS..CU. ANAL..BY. ICP. COBALT.TOTAL RECOVERABLE UG/L.AS.CO.ANAL.BY_ICP. IRON, TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP. ZINC, TOTAL RECOVERABLE UGZL AS ZN ANAL BY LCP RESIDUE, TOTAL FILTERABLE 3180 C, MG/L ... SELENIUM, TOTAL RECOVERABLE UGZL ASSE TOTAL DISSOLVED SOLIDS MG/L BY EC. ARSENIC. TOTAR RECOVERABLE UGZL AS AS 00940__CHLORIDE.TOTAL MG/L AS CL_____ LEAD, TOTAL RECOVERABLE UG/L AS PB COLLECTOR: IEPA SMPL COLLECTOR DIBROMOCHLOROMETHANE UGZL GCZMS -BROMODICHLOROMETHANE UG/L CG/MS CARBON_TETRACHLORIDE.UGZL..CGZMS _TETRACHLORGETHYLENS_UG/L. GC/MS 34496 1,1-DICHLORDETHANE UG/L.GC/MS. _1+2-DICHLORDETHANE UG/L..... SULFATE, TOTAL MG/L AS SO4 SILICA, TOTAL MG/L &S S102 FLUORIDE, TOTAL MG/L AS F NERCURY, TOTAL UG/L AS HG -34423 METHYLENE CHLORIDE UG/L CHLOROFORM UG/L GC/MS BROMOFGRM UGZL CGZMS CHLOROBENZENE. UG/L ETHYLBENZENE, UG/L LOCATION: WELL TOLUENE UGZL DESCRIPTION ANALYSIS...RSLT.----STORET----BENZENE UGZL SMPL PURP: 5-SPEC/OTHR . COMMENTS: - DBSRVATNS: 1230250 IDLUCA 00345. 00916 70304 32101. 67600 32104 32106 34301 34475 32103 32105 34010 34030 12600 95600 01042 01055 01082 01087 01092 0 34371 01045 01051 01067 01077 00927 01147 01012 01037 SAMPLE NO: 2002147 SMPL..PROG: V-VOC RAN 013 900 005 200 .003 SMPL .. TYPE: _1000000 0000000 1000000 10000000 1000000 1000000 000000 0000000 1000000 1000000 1000000 1000000 EACILITY

ILLINDIS TAVIRDNAFATAL PROTECTICA AGENCY DIVÍSION DE PUBLIC WATER SUPPLIES SELECTED SAMPLE EXPANDED REPORT

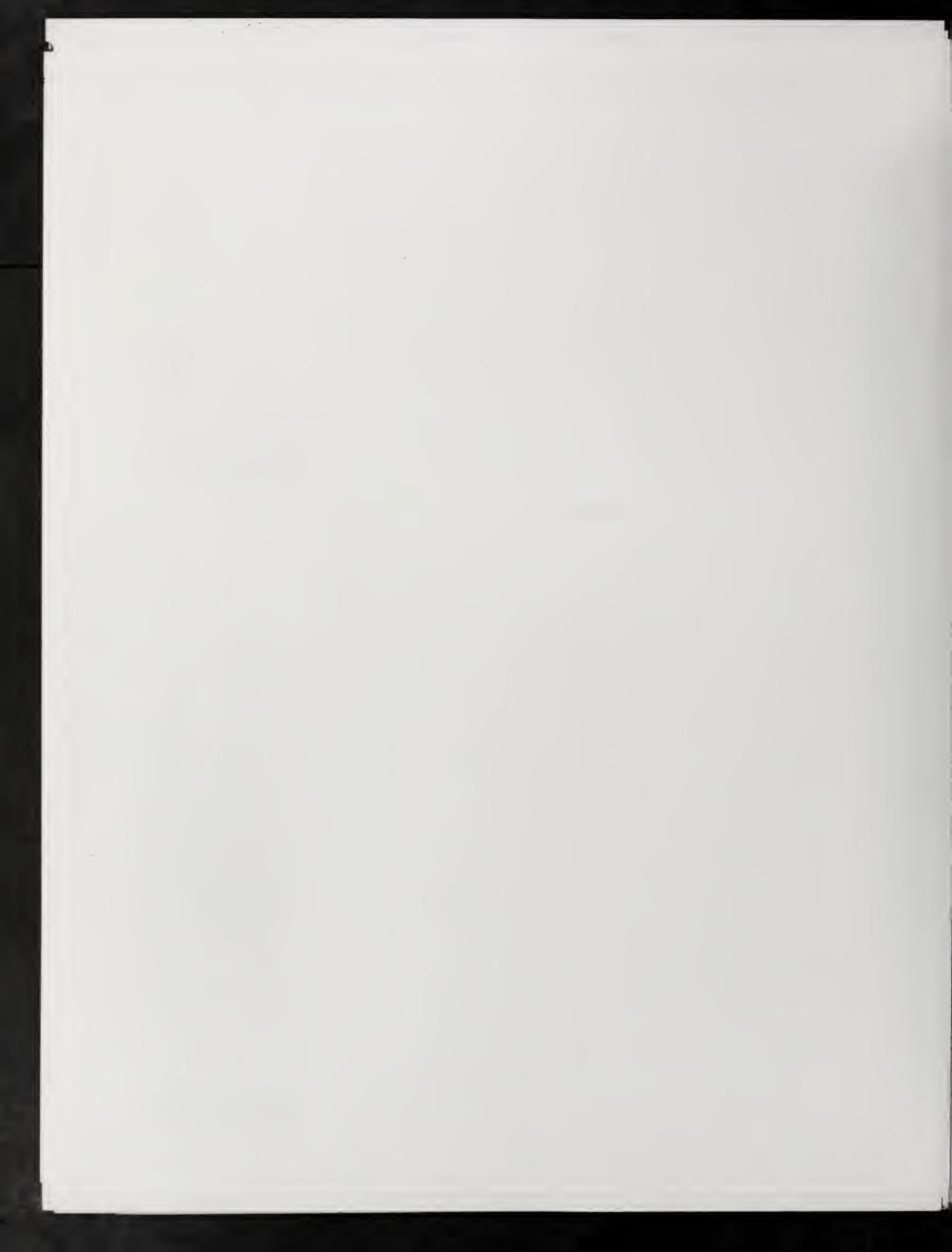
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| SELECTED SAMPLE EXPANDED REPORT | → 会会 CONTINUED → 中央 | GC/MS GC/MS UG/L GC/MS IAL CEM) MILLIVOLTS /CM a 25 C | SAMPLING MINATER SURFACE | | | | |
| 7772S | | ROCTHYLENS UG/L G HLCROSTHAME UG/L FICHLOROFTHYLENE THYLENE UG/L ERATURE DEG C ING) RATE GAL/HIN REDUCTION POTE HIN | CHAPINGS TIME PRIOR TO RECOME TO WARRENGE | | | | |
| | 230250 TOLUCA | 016 34521 016 34521 016 34566 017 39180 018 00010 020 00059 | 72019 92410 | | | | |
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APPENDIX E



HAZARD REVIEW WORKSHEET [Units within Minimum Setback Zone]

- Unique I.D. Number: 31316-01
 Unit Owner: Bernardi Italian Foods
 Distance and Direction from Wellhead: 150 ft. west of well
- 2. Nature of Business: food processing (frozen pasta manufacturing)
- 3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, Etc.): NONE
- 4. DAPC Permit Number(s) and Description: NONE
- 5. DWPC Permit Numbers and Description (e.g., Industrial Pre-Treatment, Sewer Plans, etc.): NONE
- 6. ERU Incidents and Description: NONE
- 7. ERU 313 Reports Description: NONE
- 8. ESDA 302/303 Reports and Description: NONE
- 9. ESDA 311/312 Reports and Description: NONE
- 10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): no VOC/VOA detected
- 11. ISFM list the underground storage tanks registered, provide the owner name and address:

OSFM # - LOCAL NAME/OWNER - ADDRESS - PHONE # - NO. OF TANKS

- 12. Is the site sewered or unsewered? SEWERED If the site is not sewered, describe:
- 13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occurred?
 - [] Yes. If yes, describe:

[XX] No.

- 14. Are there currently any on-site piles of special or hazardous waste?
 - [] Yes. If yes, describe:

[XX] No.

| 15. | Are | e on-site piles of waste (other than special or hazardous wastes) haged according to Agency guidelines? |
|-------|------|---|
| | ſ |) Yes. |
| | l |] No. If no, describe: |
| 16. | Are | there currently any underground storage tanks present on-site, and lany underground tanks be installed in the future? |
| | [|] Yes. If yes, describe: |
| | [XX |] No. |
| 17(a) | .Ha | s any situation(s) occurred at this site which resulted in a elease" of any hazardous substance or petroleum? |
| |] | Yes (continue to next question) |
| | [XX] | No (stop here) |
| (b) | aut | we any hazardous substance or petroleum, which were released, come to contact with the ground surface at this site? (Notedo not comatically exclude paved or otherwise covered areas that may still we allowed chemical substances to penetrate into the ground.) |
| | [] | Yes (continue to next question) |
| | () | No (stop here) |
| (c) | . Ha | we any of the following actions/events been associated with the clease(s) referred to in question 17(b)? |
| ! | [] | Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils. |
| (| 1 | Replacement or major repair of damaged facilities. |
| C | } | Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils. |
| ſ | } | Designation, by IEPA or ESDA, of a release as "significant" under the Illinois Chemical Safety Act. |
| (|) | Reordering or other replenishment of inventory due to the amount of substance lost. |
| ſ | } | Temporary or more long-term monitoring of groundwater at or near the site. |
| ſ | 1 | Stop usage of an on-site or nearby water well because of offensive characteristics of the water. |

- 1

| | ĺ |] | Coping with fumes from subsurface storm drains or inside basements. |
|-----|------|-----|---|
| | ĺ |] | Signs of subsurface leaching out of the ground along the base of slopes or at other low points on or adjacent to the site. |
| (d | . (| 1 | The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Yes. If yes, summarize the problem: |
| | | | |
| | (|] | No. |
| 18. | go] | Lve | there more than 100 gallons of either pesticides or organic ents, or 10,000 gallons of any hazardous substance, or 30,000 ons of petroleum present at any one time? |
| | ĺ |) | Yes. If yes, describe: |
| | [XX] | () | No. |
| 19. | | | ny of the regulated entities have groundwater monitoring systems, have any exceeded compliance requirements? |
| | ſ |] | Yes. If yes, describe: |
| | (X) | () | No. |
| 20. | | | considering all the above criteria does this site potentially a hazard to groundwater? |
| | ſ | J | Yes. If yes, describe: |
| | (X) | () | No. |
| | | | |
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APPENDIX F



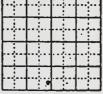
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ILLINOIS GEOLOGICAL SURVEY, URBANA 16PA #: 3/3/

COMPANY J. P. Miller Artesian Well C8% NO. 2 FARM Toluca City Well COUNTY NO. //2 DATE DRILLED 1951 J. P. Miller Artesian Well Co. 695' est. T. M. 70' E. line, 520' S. line of SE SW AUTHORITY ELEVATION LOCATION MARSHALL COUNTY



5-29N-1E

| | Thickness | Тор | Bottom |
|---|-----------|---|---|
| | | 546 559 562 570 595 600 610 712 750 | 559 562 570 595 600 610 712 750 773 |
| : level 359 | | 773 844 848 852 925 | 844 848 852 925 935 |
| Level 320 235 | | 935 949 1160 1250 1320 | 949 1160 1250 1320 1339 |
| ırd | | 1339 1710 1775 1805 | 1710 1775 1805 1884 |
| | | to 18 | 1 |
| ng: 0-94'6" 517' sing and liner: | | | |
| op to bottom with ags bentonite.)" are 2',above L. | | bags | |

Artesian Well Co., Toluca City Well#2 5-29N-1E

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Page 1

| DOWNER PROPERTY DATA NIA | Thickness | Тор | Bottom |
|---------------------------------------|-----------|-----|---|
| Black soil | | | |
| Red claw | 2 | 0 | 2 |
| | 10 | 2 | 12 |
| Blue shale and clay | 8 | 12 | 20 |
| Red sand and clay some gravel | 10 | 20 | 30 |
| Blue hard pan | 6 | 30 | 36 |
| Gray shale with pea gravel some water | 10 | 36 | 46 |
| Gray shale with pea bravel | 39 | 46 | 85 |
| Gray clay and fine sand | 10 | 85 | 95 |
| Brown muddy shale | 11 | 95 | 106 |
| Green shaly lime | 18 | 106 | 124 |
| Gray shale mixed with pink shale | 26 | 124 | 150 |
| Gray shale mixed with gravel | 25 | 150 | 175 |
| Gray shale and lime | 11 | 175 | 186 |
| Coat Chit. | 2 | 186 | 188 |
| Pink shale and lime | 7 | 188 | 195 |
| Light gray shale some lime shells | 40 | 195 | 235 |
| Dark brown shale | 30 | 235 | 265 |
| Black shale | 25 | 265 | 290 |
| Light gray shale | 25 | 290 | 315 |
| Dark lime and shale | 3 | 315 | 318 |
| Coal and black shale | 16 | 318 | 334 |
| Light gray shale | 31 | 334 | 365 |
| Dark shale | 15 | 365 | 380 |
| Coal and black slate | 5 | 380 | 385 |
| Light gray shale | 5 | 385 | 390 |
| Light gray shale Lime shells | 60 | 390 | 450 |
| Light gray lime | 25 | 450 | 475 |
| Brown shale | 5 | 475 | 480 |
| Light brown lime | 20 | 480 | 500 |
| Mine break | 2 | 500 | 502 |
| Gray shale | 10 | 502 | 512 |
| Gray sandy lime | 10 | 512 | |
| | | 312 | 522 |
| COMPANY J.P. Miller Well Company | | | |
| FARM City of Toluca No. | 3 | | |
| DATE DRILLED January 1965 COUNTY NO. | 64 | | † |
| AUTHORITY J.P. Miller Well Company | | | |
| ELEVATION ; | | | |

| COMPANY J.P. Miller Well Company | |
|---|-------|
| FARM City of Toluca No. 3 | |
| DATE DRILLED January 1965 COUNTY NO. 64 | |
| AUTHORITY J.P. Miller Well Company | |
| ELEVATION | +++4 |
| LOCATION 83° S line, 2090° W line NW | |
| COUNTY MARSHALL 5-2 | 9N-1E |

ILLINOIS GEOLOGICAL SURVEY, URBANA

| Strata | Thickness | Tep | Bottom |
|--|-----------|--------|--------|
| Sand | 20 | 525 | 545 |
| Dark shale | 3 | 545 | |
| Gray sandy lime . | 9 | 548 | 557 |
| Coal | 2 | 557 | |
| Gray chalky lime | 16 | 559 | |
| Dark brown shale | 5 | 575 | |
| Good-sand static water level 4301 | 12 | 580 | |
| Gray lime | 43 | 592 | 635 |
| Lime changing to light brown | 5 | 635 | |
| Light gray lime some white chlak bricks | 60 | 640 | 700 |
| Light gray lime static water level 210° | 100 | 700 | 800 |
| Gray lime medium static water level 210° | 116 | 800 | 916 |
| White medium lime | 194 | 916 | 1110 |
| Light gray and pink lime | 25 | 1110 | 1135 |
| Light gray lime | 25 | 1135 | 1160 |
| Shaly green sandy lime | 15 | 1160 | 1175 |
| Green shale | 63 | 1175 | 1238 |
| Gray hard shale mixed dark fine lime | 30 | 1238 | 1268 |
| White lime | 14 | 1268 | 1280 |
| Bark gray | 15 | 1280 | 1295 |
| Dark brown lime | 20 | 1295 | 1315 |
| Gray shale | 20 | 1315 | |
| Light brown lime | 275 | 1335 | 1610 |
| Brown lime | 70 | 1610 | 1680 |
| Brown sand static water level 525* | 3 | 1680 | |
| Brown silt sand | 12 | 1683 | |
| Silty sand, brown | 15 | 1695 | 1710 |
| St. Peter sand, white | 90 | 1710 | 1800 |
| Medium drilling sand | 20 | 1800 | 1820 |
| Hard sand | 22 | 1820 | 1842 |
| Bottom of hole | | | 1870 |
| Casing: 20" O.D. 106*6" 16" 181*-617* 12" O.D. 613*8" 8" 615*-1371* | | | |
| Static water level 190° Drawdown water | | 282° a | |

J.P. Miller Well Company

City of Toluca #3

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MARSHALL

COUNTY

5-29N-1E



